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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent No.: 7,012,763 B2

Issue Date: Mar. 14, 2006

Inventor : Yuan-Hsun WU

Docket No.: NTCP0034USA

Certificate

APR 0.4 2006

of Correction

Title: APERTURE PLATE FOR LITHOGRAPHY SYSTEMS

To:

Commissioner for Patents

P.O. BOX 1450

Alexandria, VA 22313-1450

Subject: Request for Certificate of Correction of Office Mistake

The name of the assignee listed on the front page of the Patent is incorrect (Attachment 1). Documents on record indicate this as an Office mistake of consequence.

The applicant hereby requests that a Certificate of Correction be issued under 37 CFR 1.322 to correct the name of the assignee from Nanya Technolog Corp. to Nanya Technology Corp. which was correctly listed on the Fee Transmittal submitted on 01/03/2006 (Attachment 2)and The Notice of Recordation dated 04/28/2004 (Attachment 3).

Respectfully submitted,

Wenten Har Date: 03.28.2006

Winston Hsu, Patent Agent No. 41,526

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(Note: Please leave a message in my voice mail if you need to talk to me. The time in D.C. is 13 hours behind the Taiwan time, i.e. 9 AM in D.C. = 10 PM in Taiwan).



(12) United States Patent Wu

(10) Patent No.:

US 7,012,763 B2

(45) Date of Patent:

Mar. 14, 2006

(54) APERTURE PLATE FOR LITHOGRAPHY SYSTEMS

(75) Inventor: Yuan-Hsun Wu, Tao-Yuan Hsien (TW)

(73) Assignee: Nanya Technolog Corp. Tao-Yuan
Hsien (TW) Technology

Notice: Subject to any disclaimer, the term of this

patent is extended or adjusted under 35

U.S.C. 154(b) by 1 day.

(21) Appl. No.: 10/709,311

(22) Filed: Apr. 28, 2004

(65) Prior Publication Data

US 2005/0243440 A1 Nov. 3, 2005

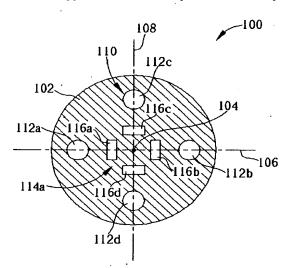
(51) Int. Cl. G02B 27/00 G03B 27/72

(2006.01) (2006.01)

. (52) II C (2) 250/91

359/738-740; 355/53, 67

See application file for complete search history.



(56) References Cited

U.S. PATENT DOCUMENTS

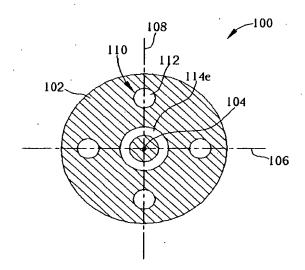
* cited by examiner

Primary Examiner—Scott J. Sugarman (74) Attorney, Agent, or Firm—Winston Hsu

57) ABSTRACT

An aperture plate for lithography systems capable of improving NILS. The aperture plate includes a light-intercepting region and a light-transmitting region. The light-intercepting region has a reference center point. A horizontal reference line and a vertical reference line are defined on the light-intercepting region and intersect the reference center point. The light-transmitting region includes four pole apertures defining a central area. Two of the pole apertures are positioned on the horizontal reference line, and the other pole apertures are positioned on the vertical reference line. The light-transmitting region further includes at least a symmetric pattern aperture positioned in the central area, wherein the symmetric pattern aperture has a symmetric center overlapping the reference center point.

11 Claims, 9 Drawing Sheets





Areachment >

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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12/09/2005

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| Zoe Huang | | (Depositor's name) |
|-----------|--------------------|--------------------|
| | Zee Huang | (Signature) |
| | 2006/1/3 | (Date) |
| TOD | ATTONIEW DOCKET NO | CONTRIBUTIONING |

| i | AFFLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNET DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| ٠, | 10/709,311 | 04/28/2004 | Yuan-Hsun WU | NTCP0034USA | 3310 |
| .)TILE OF INVENTION: APERTURE PLATE FOR LITHOGRAPHY SYSTEMS | | | | | |

EIDOT MANED DIVEN

| nonprovisional NO \$1400 \$300 \$1700 0 EXAMINER ART UNIT CLASS-SUBCLASS SUGARMAN, SCOTT J 2873 359-738000 1. Change of correspondence address or indication of "Fee Address" (37 2 For printing on the patent front page list | 3/09/2006 | | | |
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| EXAMINER ART UNIT CLASS-SUBCLASS SUGARMAN, SCOTT J 2873 359-738000 1. Change of correspondence address or indication of "Fee Address" (37 2 For printing on the patent front page list | 3/09/2006 | | | |
| SUGARMAN, SCOTT J 2873 359-738000 1. Change of correspondence address or indication of "Fee Address" (37 2 For printing on the patent front page list | | | | |
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| CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a 2 | (1) the names of up to 3 registered patent attorneys 1 Winston Hsu | | | |
| Address form PTO/SB/122) attached. Of "Fee Address" indication (or "Fee Address" Indication form PTO/SB/17; Rev 03-02 or more recent) attached. Use of a Customer Number is required. (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 listed, no name will be printed. | (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 3 | | | |
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| (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) | | | | |
| NANYA TECHNOLOGY CORP. Hwa-Ya Technology Park 669, Fuhsing 3 Rd., Kueishan, Tao-Yuan Hsien. Taiwan. R.O.C. | | | | |
| 🊅 ase check the appropriate assignee category or categories (will not be printed on the patent) : 🚨 Individual 🚨 Corporation or other private group entity | Government | | | |
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| Authorized Signature Windows Law Date 2006/01/03 | | | | |
| Typed or printed name Winston Hsu Registration No. 41,526 | | | | |

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Accomment 7.



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RECORDATION DATE: 04/28/2004

REEL/FRAME: 014537/0445

NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

WU, YUAN-HSUN

DOC DATE: 04/20/2004

ASSIGNEE:

NANYA TECHNOLOGY CORP.

HWA-YA TECHNOLOGY PARK 669,

FUHSING 3 RD.,

KUEISHAN

TAO-YUAN HSIEN, TAIWAN

SERIAL NUMBER: 10709311

PATENT NUMBER:

FILING DATE: ISSUE DATE:

014537/0445 PAGE 2

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Yuan-Hsun WU

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Filing Date

Art Unit

First Named Inventor

Examiner Name SUGARMAN, SCOTT J (to be used for all correspondence after initial filing) Attorney Docket Number Total Number of Pages in This Submission NTCP0034USA **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Licensing-related Papers of Appeals and Interferences Fee Attached Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final **Provisional Application** Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): 1. Request for COC Request for Refund Express Abandonment Request 2. Copy of the Front Page of Patent 3. Copy of Fee Transmittal submitted on CD, Number of CD(s) Information Disclosure Statement 01/03/2006 4. Copies of the Notice of Recordation dated 04/28/2004 Landscape Table on CD Certified Copy of Priority Remarks Document(s) Request for Certificate of Correction of Office Mistake Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name North America Intellectual Property Corporation Signature Wanton Horas Printed name Winston Hsu Date Reg. No. 3/28/2006 41,526 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

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| Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). | Application Number | 10/709,311 | |
| FEE TRANSMITTAL | Filing Date | 04/28/2004 | |
| For FY 2005 | First Named Inventor | Yuan-Hsun WU | |
| | Examiner Name | SUGARMAN, SCOTT J | |
| Applicant claims small entity status. See 37 CFR 1.27 | Art Unit | 2873 | |
| TOTAL AMOUNT OF PAYMENT (\$) 0.00 | Attorney Docket No. NTCP0034USA | | |
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| Small Entity | Small Entity | Small Entity | s Paid (\$) |
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| Utility 300 150 500 | 250 20 | | |
| Design 200 100 100 | 50 13 | _ | |
| Plant 200 100 300 | 150 16 | | |
| Reissue 300 150 500 | 250 60 | | |
| Provisional 200 100 0 | 0 | 0 0 | 44. |
| 2. EXCESS CLAIM FEES Fee Description | | Small En Fee (\$) Fee (\$) | |
| Each claim over 20 (including Reissues) | | 50 25 | |
| Each independent claim over 3 (including Reissues) | | 200 100 | |
| Multiple dependent claims | | 360 180 | |
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| | Paid (\$) | | |
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| 3. APPLICATION SIZE FEE | | | |
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| sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) Total Sheets Extra Sheets Number of e | and 37 CFR 1.16(s). | ction thereof Fee (\$) Fe | ee Paid (\$) |
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| Signature | Wanton block | Registration No. (Attorney/Agent) 41,526 | Telephone 3027291562 | | | |
| Name (Print/Type) | Winston Hsu | | Date 3/28/2006 | | | |

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